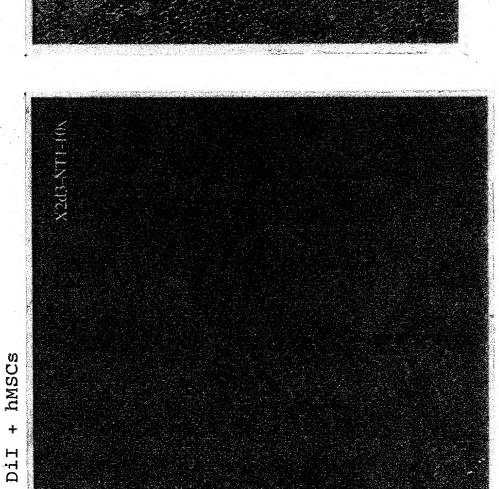
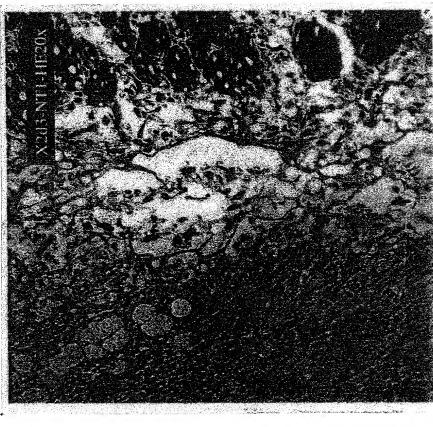
Non-Transduced hMSCs in Immuno-competent mouse muscle

Day 3





F1 G. 1a

Muscle: Day 7 Human MSCSs in Mouse

Dir labelled cells Sybr-green staining of all nuclei



2/19

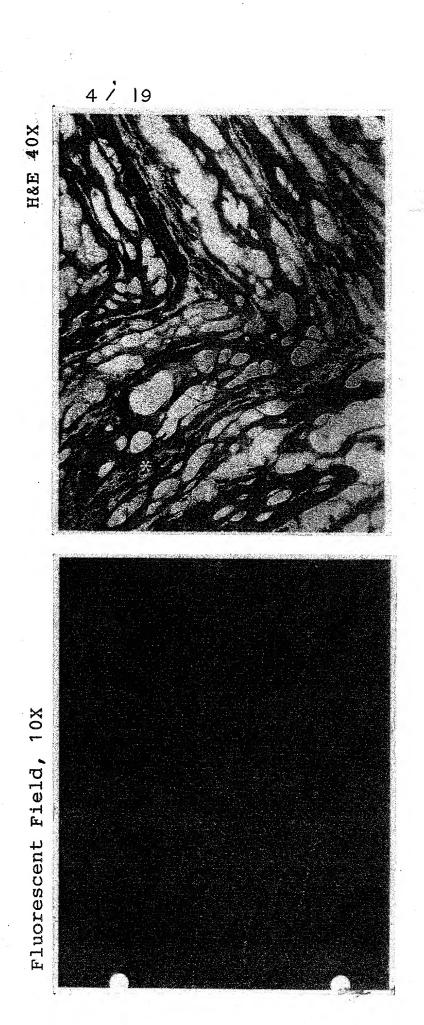
F1 G. 1c

Human MSCs in Mouse Muscle Day-7

3 / 19 (H&E, 20X)

F16.10

Human MSCs in Mouse Muscle: Day 14



. Words there's Amel danged than the

DiI-Positive of-GalA Transduced hMSCs in Immuno-competent mouse muscle

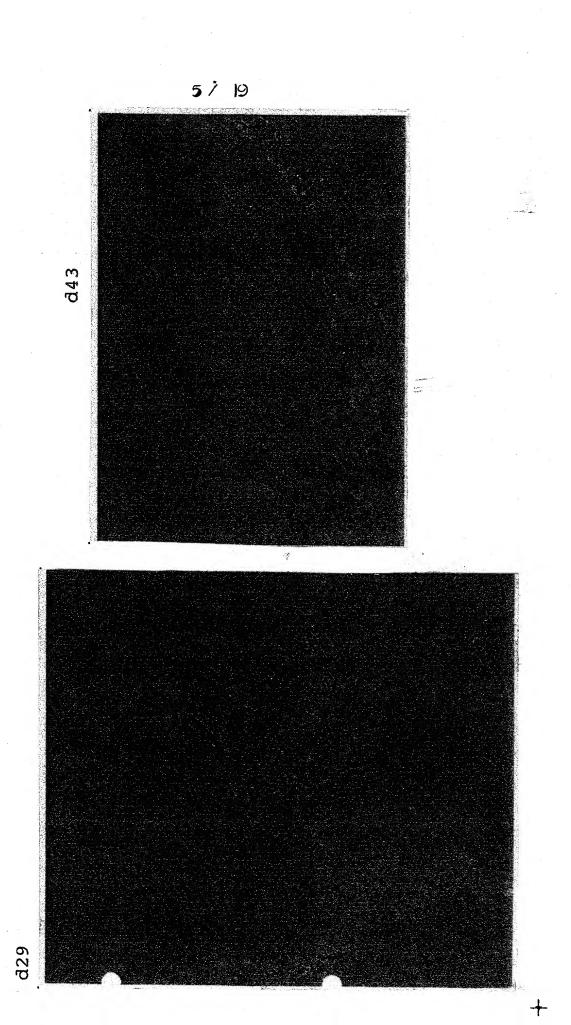
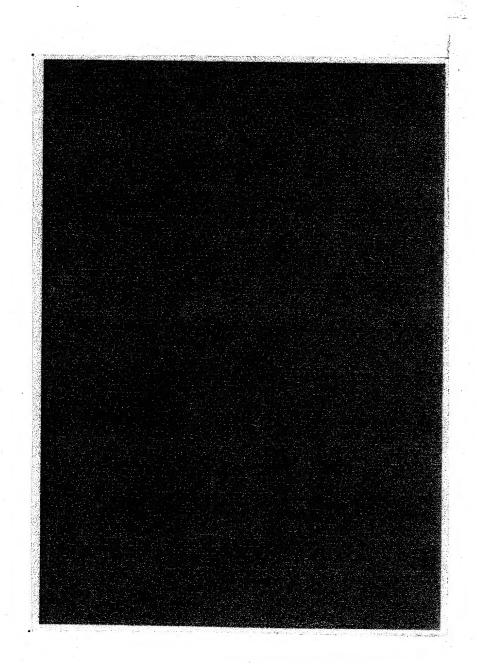


FIG. 17

Human @ GalA-Transduced MSCs in Mouse Muscle: Day-57

10X

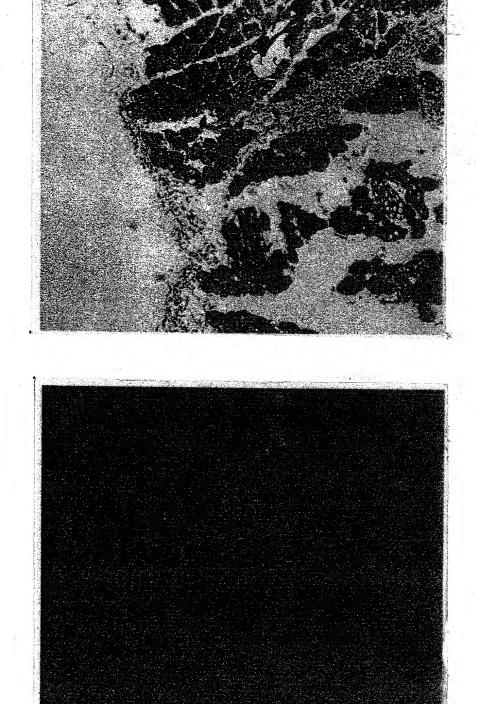


+

7 / 19

F16. 2

D3: IM injection of DiI-labeled PBMCs



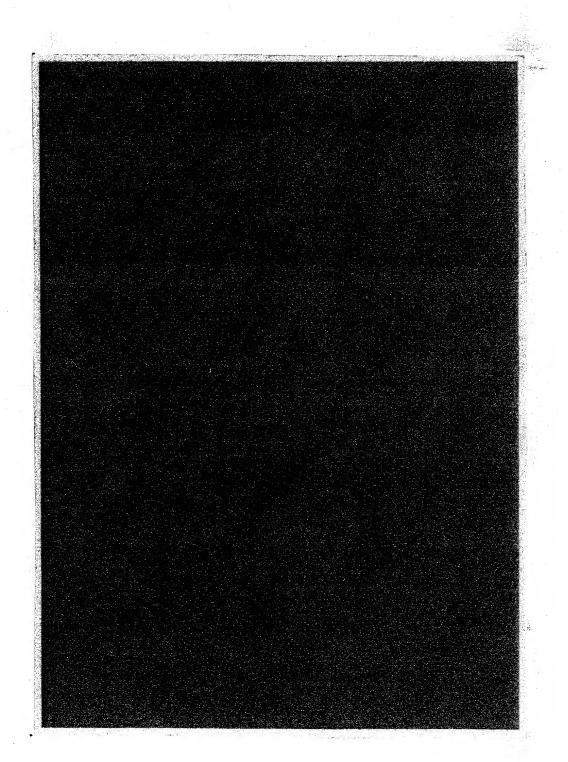
F1G. 3

D3 IM injection of saline

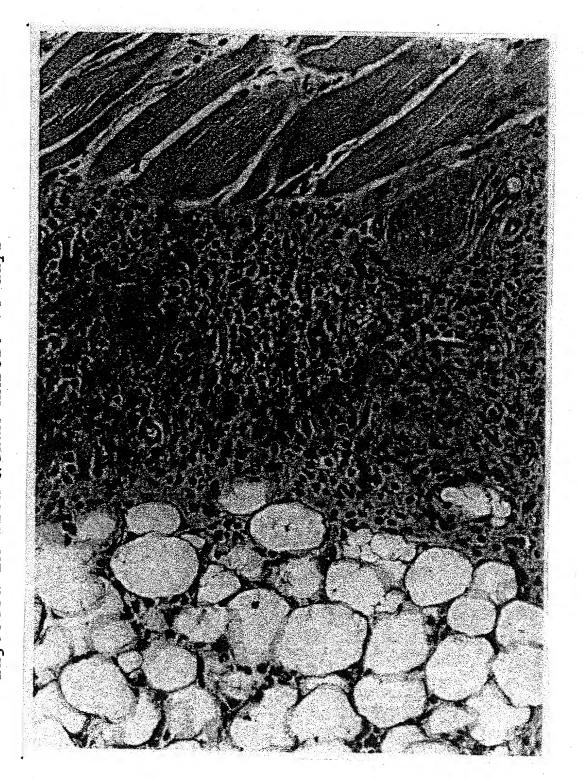


-

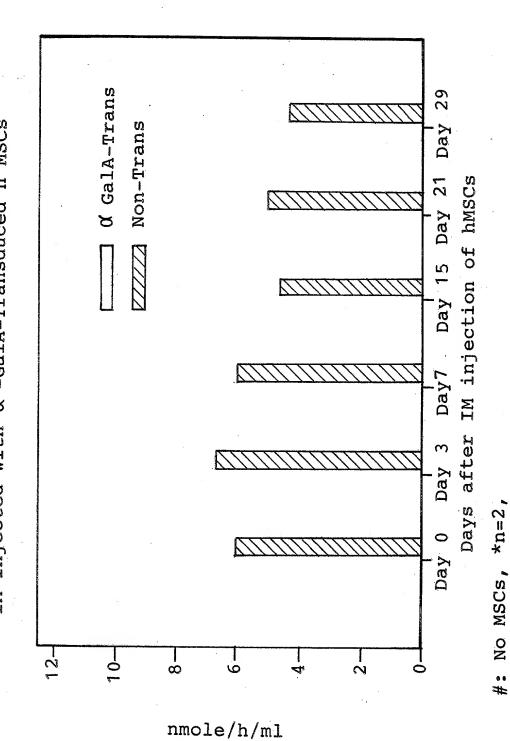
 $F \mid G. 4$ Red and Blue Florescence Channels merged



 β Gala Immunostain of Muscle from Mouse injected IM with $\alpha _{Gala-hMSCs:}$ 14 days



F1 G. 6 α -GalA activity in Plasma of Mice IM-injected with α -GalA-Transduced h MSCs



Fabry Mice plasma: 0.5 nmole/h/ml, PNAS 97:7515

_

F1 G. 7a

Human-specific Alu esquence staining of hMSCs injected into Immuno-competent mouse muscle

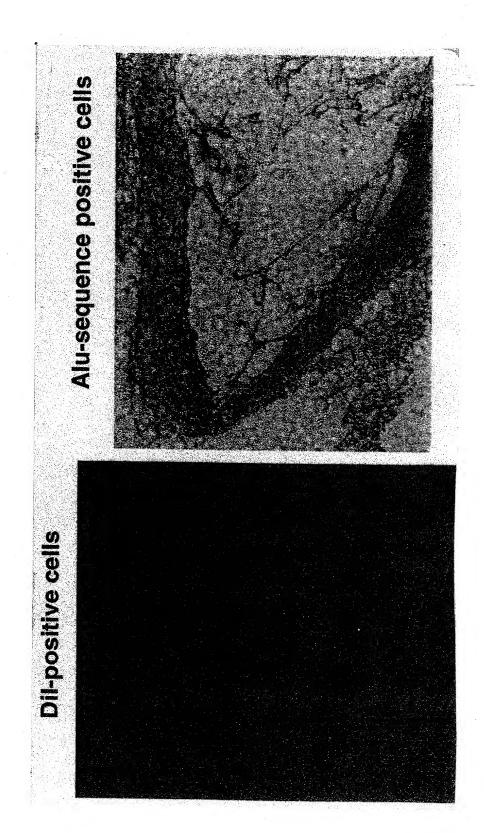
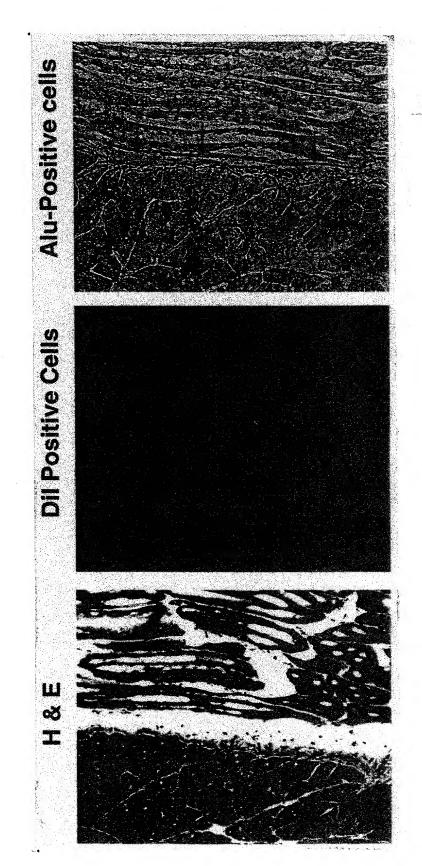
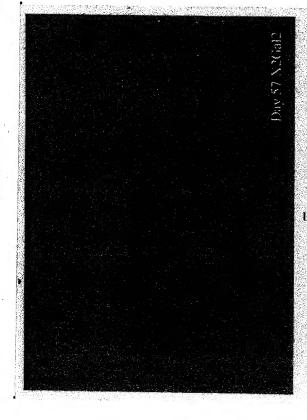


FIG. 76

Human MSCs in Mouse Muscle: 43 days



Day 57 Dil/Alu

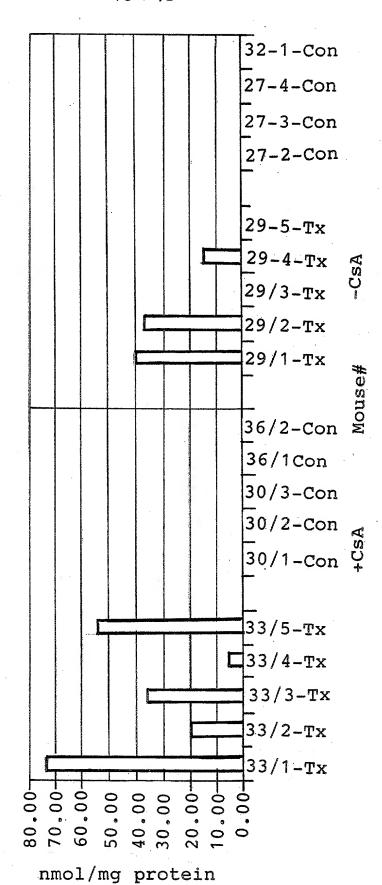




F1 G. 7c

FIG. 80

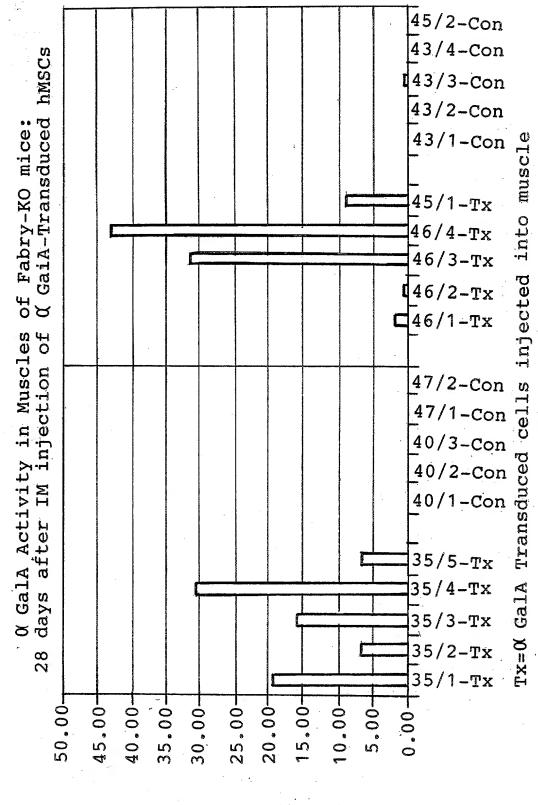
% GalA Activity in Muscles of Fabry-KO mice:



d GalA Transduced cells injected into muscle 11 ΤX

Con = Vehicle alone injected into muscle

FIG. 86

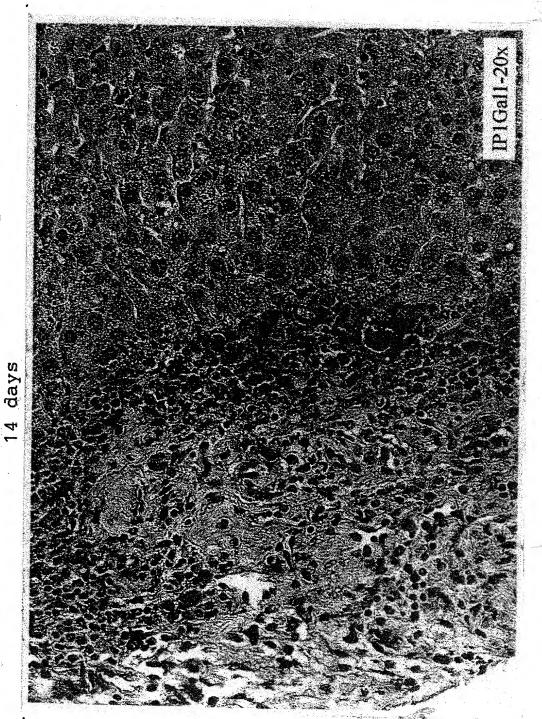


16/19

nmol/mg protein

Con=Vehicle alone injected into muscle

 β β α (GalA Immunostain of Liver from KO Mouse injected IP with α GalA-hMSCs on Cultisphers:



F1G.96

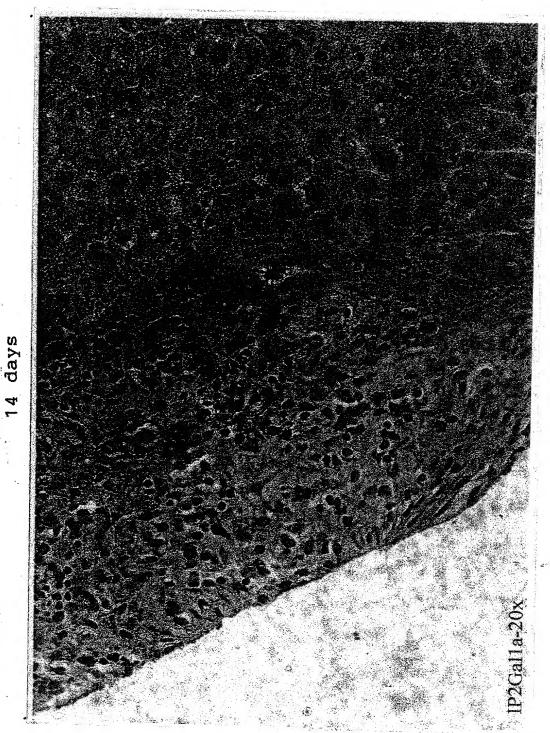
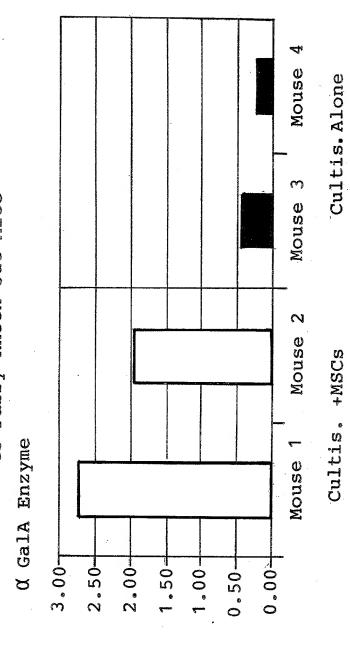


FIG. 10

Intra-Peritoneal Delivery of G GalA-Transduced hMSCs to Fabry Knock-Out Mice



nmol/mg protein

Increase in 0 GalA is 5% of normal mouse liver activity (41 nmole/mg)